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IN THE CLAIMS

Current status of all of the claims of the present application is listed below as follows:

1. (Previously Presented) An electrostatic discharge (ESD) protection circuit in a semiconductor integrated circuit having protected circuitry, the ESD protection circuit comprising:

a silicon controlled rectifier (SCR) having an anode coupled to the protected circuitry and a cathode coupled to ground, said cathode having at least one first high-doped region;

at least one trigger-tap, disposed proximate to the at least one high-doped region; and

an external on-chip triggering device coupled to the trigger-tap and the protected circuitry.

2. (Previously Presented) The ESD protection circuit of claim 1, further comprising a lateral shunt resistor coupled between the cathode and the external triggering device.

3. (Original): The ESD protection circuit of claim 1, wherein the SCR comprises a first bipolar transistor T1 and a second bipolar transistor T2; said first bipolar transistor having the at least one first high doped region serving as an emitter and forming the cathode, a first low doped region coextensively forming a base of the first bipolar transistor T1 and a collector of the second bipolar transistor T2, a second low doped region coextensively forming a base of the second bipolar transistor T2 and a collector of the first bipolar transistor T1, and a second high doped region serving as an emitter of the second bipolar transistor T2 and forming the anode.

4. (Previously Presented) The ESD protection circuit of claim 3, wherein a surface area between the respective first and second high-doped regions of the first and second bipolar transistors are blocked from shallow trench isolation.

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5. (Original) The ESD protection circuit of claim 3, wherein the bases of the first and second transistors have base widths less than 4.0 microns.
6. (Original) The ESD protection circuit of claim 5, wherein the bases of the first and second transistors have base widths in a range of 0.6 to 0.8 microns.
7. (Original) The ESD protection circuit of claim 3, wherein the at least one first high doped region is a N+ type material, the first low doped region is a P-type material, the second low doped region is a N-type material, and the second high doped region is a P+ type material.
8. (Original) The ESD protection circuit of claim 7, wherein the triggering device is a MOSFET transistor selected from the transistor group consisting of a NMOS, a NMOS provided with drain-bulk-gate coupling, a NMOS in an isolated P-well, at least two cascoded NMOS transistors, and a ballasted NMOS.
9. (Previously Presented) The ESD protection circuit of claim 8, wherein a source and a drain of the MOSFET transistor are respectively coupled to the trigger-tap and to the protected circuitry.
10. (Previously Presented) The ESD protection circuit of claim 9, wherein a gate of the MOSFET is coupled to the source of the MOSFET transistor selected from the transistor group consisting of the NMOS, the NMOS in an isolated P-well, the at least two cascoded NMOS transistors, and the ballasted NMOS.
11. (Original) The ESD protection circuit of claim 7, wherein the triggering device is a MOSFET transistor selected from the transistor group consisting of a PMOS, a PMOS provided with drain-bulk-gate coupling, a PMOS in an isolated N-well, at least two cascoded PMOS transistors, and a ballasted PMOS.

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12. (Previously Presented) The ESD protection circuit of claim 11, wherein a drain and a source of the MOSFET transistor are respectively coupled to the trigger-tap and the protected circuitry.
13. (Previously Presented) The ESD protection circuit of claim 12, wherein a gate of the MOSFET is coupled to the source of the MOSFET transistor selected from the transistor group consisting of the PMOS, the PMOS in an isolated N-well, the at least two cascoded PMOS transistors, and the ballasted PMOS.
14. (Original) The ESD protection circuit of claim 3, wherein a surface area between the respective first and second high-doped regions of the first and second bipolar transistors are shallow trench isolated.
15. (Previously Presented) An electrostatic discharge (ESD) protection circuit in a semiconductor integrated circuit (IC) having protected circuitry, the ESD protection circuit comprising:
- a SCR further comprising:
 - a substrate;
 - a N-well and an adjacent P-well formed in said substrate and defining a junction therebetween;
 - at least one N+ doped region in said P-well and coupled to ground;
 - a P+ doped region in said N-well and coupled to a pad of said protected circuitry;
 - at least one P+ doped trigger tap disposed proximate to at least one N+ doped region in said P-well; and
 - an external on-chip triggering device coupled to the SCR, wherein one terminal is coupled to the pad and a second terminal is coupled to the trigger tap.

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16. (Original) The ESD protection circuit of claim 15, wherein the second terminal is further coupled to ground via a shunt resistor.
17. (Previously Presented) The ESD protection circuit of claim 15, wherein a surface area between the at least one N+ doped region and the P+ doped region is shallow trench isolation blocked.
18. (Original) The ESD protection circuit of claim 15, wherein respective base widths between the P+ doped region and the junction, and between the at least one N+ doped region and the junction are less than 4.0 microns.
19. (Original) The ESD protection device of claim 15, wherein a P-well-tie is coupled to the P-well and grounded.
20. (Original) The ESD protection circuit of claim 15, wherein the triggering device is a MOSFET transistor selected from the transistor group consisting of a NMOS, a NMOS provided with drain-bulk-gate coupling, a NMOS in an isolated P-well, at least two cascoded NMOS transistors, and a ballasted NMOS.
21. (Previously Presented) The ESD protection circuit of claim 20, wherein a source and a drain of the MOSFET transistor are respectively coupled to the trigger-tap and the pad.
22. (Previously Presented) The ESD protection circuit of claim 21, wherein a gate of the MOSFET is coupled to the source of the MOSFET transistor selected from the transistor group consisting of the NMOS, the NMOS in an isolated P-well, the at least two cascoded NMOS transistors, and the ballasted NMOS.

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23. (Original) The ESD protection circuit of claim 15, wherein a surface area over a non high-doped region and between the P+ doped region and the at least one N+ doped region is fully shallow trench isolated.
24. (Previously Presented) An electrostatic discharge (ESD) protection circuit in a semiconductor integrated circuit (IC) having protected circuitry, the ESD protection circuit comprising:
- a SCR further comprising:
 - a substrate;
 - a P-well and an adjacent N-well formed in said substrate and defining a junction therebetween;
 - at least one P+ doped region dispersed in said N-well;
 - a N+ doped region dispersed in said P-well and coupled to ground;
 - at least one N+ doped trigger tap disposed proximate and between the at least one P+ doped region in said N-well; and
 - a PMOS transistor triggering device coupled to the SCR, wherein a drain is coupled to ground and a source is coupled to the trigger tap; the at least one P+ doped region is further coupled to a pad; the source is further coupled to the pad via a shunt resistor; and the pad is further coupled to said protected circuitry.
25. (Original) The ESD protection circuit of claim 24, wherein a surface area over a non-high-doped region and between the at least one P+ doped region and the N+ doped region is shallow trench isolation blocked.
26. (Original) The ESD protection device of claim 24, wherein a N-well tie is coupled to the N-well and coupled to the pad.
27. (Original) The ESD protection circuit of claim 24, wherein the triggering device is a PMOS transistor selected from the transistor group consisting of a PMOS, a

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PMOS provided with drain-bulk-gate coupling, a PMOS in an isolated N-well, at least two cascoded PMOS transistors, and a ballasted PMOS.

28. (Previously Presented) The ESD protection circuit of claim 27, wherein a source and a drain of the MOSFET transistor are respectively coupled to the at least one trigger-tap and ground.

29. (Previously Presented) The ESD protection circuit of claim 28, wherein a gate of the MOSFET is coupled to the source of the MOSFET transistor selected from the transistor group consisting of the PMOS, the PMOS in an isolated N-well, the at least two cascoded PMOS transistors, and the ballasted PMOS.

30. (Original) The ESD protection circuit of claim 24, wherein respective base widths between the N+ doped region and the junction, and between the at least one P+ doped region and the junction are less than 4.0 microns.

31. (Original) The ESD protection circuit of claim 24, wherein a surface area over a non high-doped region and between the N+ doped region and the at least one P+ doped region is fully shallow trench isolated.